

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-18. (canceled)

Claim 19. (previously presented) A method for data transmission in a mobile radio system, the method comprising the steps of:

transmitting data between a first base station and at least one mobile station based on a first transmission method;

inserting interruption phases, at least during particular transmission phases, in which the mobile station interrupts the transmission of the data and in which the mobile station is switched to reception of data packets sent by a second base station based on a second transmission method, the second base station operating on a GSM standard which is based on a synchronization frame structure having a period of 51 frames; and

inserting interruption phases having an effective total duration of a maximum of 10 observation frames.

Claim 20. (previously presented) A method for data transmission and a mobile radio system as claimed in claim 19, wherein a period of 52 GSM frames lies between a start of a first interruption phase and a start of a second interruption phase.

Claim 21. (previously presented) A method for data transmission in a mobile radio system as claimed in claim 19, wherein a period of 26 GSM frames lies between a start of a first interruption phase and a start of a second interruption phase.

Claim 22. (previously presented) A method for data transmission in a mobile radio system as claimed in claim 19, wherein a period of n1 GSM frames lies between a start of a first

interruption phase and a start of a second interruption phase, and a period of n_2 GSM frames lies between the start of the second interruption phase and a start of a third interruption phase.

Claim 23. (previously presented) A method for data transmission in a mobile radio system as claimed in claim 22, wherein a period of 6 GSM frames lies between the start of the first interruption phase and the start of the second interruption phase, and a period of 46 GSM frames lies between the start of the second interruption phase and the start of the third interruption phase.

Claim 24. (previously presented) A method for data transmission in a mobile radio system as claimed in claim 22, wherein a period of 16 GSM frames lies between the start of the first interruption phase and the start of the second interruption phase, and a period of 36 GSM frames lies between the start of the second interruption phase and the start of the third interruption phase.

Claim 25. (previously presented) A method for data transmission in a mobile radio system as claimed in claim 19, the method further comprising the step of:

transmitting, via the mobile station and after reception of at least one of a characteristic data packet and a data packet to be detected from the second base station, information for influencing insertion of further interruption phases to the first base station.

Claim 26. (previously presented) A mobile station, comprising:
a transmitter for transmitting data from and to a first base station based on a first transmission method;

an insert g unit for inserting pauses at least during particular transmission phases in the transmission of data is interrupted; and a switch for switching to reception of data packets sent by a second base station based on a second transmission method, the second base station operating on a GSM standard which is based on a synchronization frame structure having a period of 51 frames, wherein interruption phases having an effective total duration of a maximum of 10 observation frames are inserted.

Claim 27. (previously presented) A mobile station as claimed in claim 26, wherein a period of 52 GSM frames lies between a start of a first interruption phase and a start of a second interruption phase.

Claim 28. (previously presented) A mobile station as claimed in claim 26, wherein a period of 52 GSM frames lies between a start of a first interruption phase and a start of a second interruption phase.

Claim 29. (previously presented) A mobile station as claimed in claim 26, wherein a period of $n1$ GSM frames lies between a start of a first interruption phase and a start of a second interruption phase, and a period of $n2$ GSM frames lies between the start of the second interruption phase and a start of a third interruption phase.

Claim 30. (previously presented) A mobile station as claimed in claim 26, further comprising:

a device for ascertaining a reception result for the data packets received from the second base station; and

a sending unit for sending to the first base station information which influences insertion of further interruption phases.

Claim 31. (previously presented) A base station comprising:
a transmitter for transmitting data from and to a mobile station; and
an inserting unit for inserting interruption phases at least during particular transmission phases in which the mobile station interrupts the transmission of data and in which the mobile station is switched to reception of data packets sent by a second base station based on a second transmission method, the second base station operating on a GSM standard which is based on a synchronization frame structure having a period of 51 frames, and interruption phases having an effective total duration of a maximum of 10 observation frames are inserted.

Claim 32. (previously presented) A base station as claimed in claim 31, wherein a period of 52 GSM frames lies between a start of a first interruption phase and a start of a second interruption phase.

Claim 33. (previously presented) A base station as claimed in claim 31, wherein a period of 26 GSM frames lies between a start of a first interruption phase and a start of a second interruption phase.

Claim 34. (previously presented) A base station as claimed in claim 31, wherein a period of $n1$ GSM frames lies between a start of a first interruption phase and a start of a second interruption phase, and a period of $n2$ GSM frames lies between the start of the second interruption phase and a start of a third interruption phase.

Claim 35. (previously presented) A base station as claimed in claim 31, further comprising:

a receiver for receiving information which influences insertion of interruption phases;
and
a unit for influencing insertion of interruption phases based on a reception result.